

1 Claim 1. (Cancelled)

1 2. (Currently amended) The liquid separator according  
2 to claim [1] 6, wherein said inlet compartment includes a back  
3 wall [barrier] interposed between said filter element and said  
4 sample outlet port, said [barrier] back wall defining said  
5 upper outlet and said first filter element overlying said back  
6 wall.

1 3. (Original claim) The liquid separator according to  
2 claim 2, wherein said liquid trap filter chamber includes a  
3 cover which encloses said filter element within said inlet  
4 compartment.

9 1 4. (Currently amended) The liquid separator according  
2 to claim 3, wherein said cover includes at least one concave  
3 filter engaging surface engaging said first filter element to  
4 trap said first filter element between said cover and said  
5 [barrier] back wall.

1 5. (Currently amended) The liquid separator according  
2 to claim [1] 6, wherein said first filter element comprises a  
3 membrane bearing a polytetrafluoroethylene laminate.

1 6. (Currently amended) [The liquid separator according  
2 to claim 1, wherein] A liquid separator for a gas analyzer,  
3 said liquid separator comprising:  
4 a closed container including a sample inlet port, a  
5 sample outlet port, and a low pressure port;  
6 said container defining a liquid collection chamber;  
7 a liquid trap filter chamber integral with said  
8 container, said liquid trap filter chamber including an inlet  
9 compartment interposed between said sample inlet port and said  
10 sample outlet port for receiving a gas sample introduced into  
11 said sample inlet port, said inlet compartment having an upper

12 outlet communicated with said sample outlet port and a lower  
13 outlet communicated with said liquid collection chamber;  
14 a first liquid trap filter element contained and  
15 supported within said inlet compartment interposed between  
16 said sample inlet port and said sample outlet port for  
17 separating liquid from the gas sample, liquid separated from  
18 the gas sample passing through said lower outlet to said  
19 collection chamber;

20 said liquid trap filter chamber [includes] including an  
21 outlet compartment separate from said inlet compartment, said  
22 outlet compartment interposed between said collection chamber  
23 and said low pressure port, said outlet compartment having an  
24 inlet communicated with said collection chamber and an outlet  
25 communicated with said low pressure port[,]; and

26 a second liquid trap filter element contained [in] and  
27 supported within said outlet compartment interposed between  
28 said inlet and said outlet of said outlet compartment.

1 7. (Currently amended) The liquid separator according  
2 to claim 6, wherein said outlet compartment includes a back  
3 wall [barrier] interposed between said second filter element  
4 and said low pressure port, said [barrier] back wall defining  
5 said outlet port of said outlet compartment and said second  
6 filter element overlying said back wall.

1 8. (Original claim) The liquid separator according to  
2 claim 6, wherein said second filter element comprises a  
3 membrane bearing a polytetrafluoroethylene laminate.

1 9. (Currently amended) The liquid separator according  
2 to claim [1] 6, and including a self-sealing filter in at  
3 least one of said sample outlet port and said low pressure  
4 port.

1 Claims 10-14. (Cancelled).

1 15. (Currently amended) The liquid separator according  
2 to claim [10] 17, including a self-sealing filter in at least  
3 one of said sample outlet port and said low pressure port.

1 Claim 16. (Cancelled).

1 17. (Currently amended) [The liquid separator according  
2 to claim 16, including] A liquid separator for a gas analyzer,  
3 said liquid separator comprising:

4 a sample inlet port;

5 a sample outlet port;

6 an inlet compartment having an upper outlet communicated  
7 with said sample outlet port and a lower outlet communicated  
8 with said collection chamber, said inlet compartment having an  
9 inlet forward wall portion and an inlet back wall portion,  
10 said inlet back wall portion defining said upper outlet;

11 a first gas permeable, liquid impermeable filter element  
12 contained and supported within said inlet compartment located  
13 between said inlet forward wall portion and said inlet back  
14 wall portion and interposed between said sample inlet port and  
15 said upper outlet for separating liquid from the gas sample;

16 a liquid collection chamber for receiving liquid passed  
17 through said lower outlet of said inlet compartment;

18 an outlet compartment interposed between said collection  
19 chamber and [said] a low pressure outlet, said outlet  
20 compartment having an inlet communicated with said collection  
21 chamber and an outlet communicated with said low pressure  
22 port, said outlet compartment having an outlet forward wall  
23 portion and an outlet back wall portion, said outlet back wall  
24 portion defining said upper outlet; and

25 a second gas permeable, liquid impermeable filter element  
26 contained [in] and supported within said outlet [trap filter]  
27 compartment located between said outlet forward wall portion  
28 and said outlet back wall portion and interposed between said  
29 inlet and said outlet of said outlet [trap filter]  
30 compartment.

1 18. (Original claim) The liquid separator according to  
2 claim 17, wherein said first-mentioned and said second filter  
3 elements each comprises a membrane bearing a  
4 polytetrafluoroethylene laminate.

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1 Claim 19. (Cancelled)

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1 20. (Currently amended) A liquid separator for a gas  
2 analyzer, said liquid separator comprising:  
3 a sample inlet port;  
4 a sample outlet port;  
5 an inlet compartment for receiving a gas sample  
6 introduced into said sample inlet port, said inlet compartment  
7 having an upper outlet communicated with said sample outlet  
8 port and a lower outlet [communicated with said collection  
9 chamber], said inlet compartment having an inlet back wall  
10 portion defining said upper outlet;  
11 a first gas permeable, liquid impermeable filter element  
12 contained [in] and supported within said inlet compartment  
13 overlying said back wall and spaced forwardly from said inlet  
14 back wall portion, said first filter element interposed  
15 between said sample inlet port and said upper outlet for  
16 separating liquid from the gas sample;  
17 a liquid collection chamber receiving liquid passed  
18 through said lower outlet of said inlet trap filter  
19 compartment;  
20 a low pressure port;  
21 an outlet compartment interposed between said collection  
22 chamber and said low pressure port, said outlet compartment  
23 having an inlet communicated with said collection chamber and  
24 an outlet communicated with said low pressure port, said  
25 outlet compartment having an outlet back wall portion defining  
26 said outlet; and  
27 a second gas permeable, liquid impermeable filter element  
28 contained [in] and supported within said outlet compartment  
29 overlying said back wall and spaced forwardly from said outlet

Q14 30 back wall portion, said second element interposed between said  
cont. 31 inlet and said outlet of said outlet compartment.

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